Microservices

and beyond

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- 9 Lectures
- 9 Praces

Lectures

- 1. SOA and Microservices
- 2. Microservices Patterns
- 3. IO vs. NIO
- 4. Messaging in distributed systems
- 5. Data formats for distributed exchange

- 6. Event-Driven Architecture and CQRS
- 7. NoSQL vs. SQL
- 8. Caching
- 9. Microservices infrastructure

Each one is 60 minutes including Q&A at the end (10 minutes).

Microservices and beyond Chialexbel

Praces

- 1. Managing containers with K8s
- 2. Implementing microservices patterns with Spring Cloud and K8s
- 3. RESTful communication between microservices
- 4. Apache Kafka as message broker

- 5. Saga example with Kafka and PostgreSQL
- 6. Event Sourcing and CQRS with Kafka
- 7. MongoDB as document storage in microservices
- 8. Example of caching with Redis
- 9. Enabling NIO using Project Reactor

Each one is 90 minutes

After each practice students will be assigned to build custom projects on top of what we discussed.

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